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(54) ACID GAS ADSORBENT

(57) Abstract:

PURPOSE: To remove the effect of carbonic acid gas and enhance the characteristic of selectively removing the other acid gases, by depositing a metallic phthalocyanine on the ion exchanger having a quaternary ammonium group to thereby form an acid gas adsorbent thereon.

CONSTITUTION: An ion exchanger having the anion exchange group represented by at least a quaternary ammonium group as ion exchange group is impregnated into the liquid containing a metallic phthalocyanine dissolved or diffused therein. A metallic phthalocyanine is deposited on this ion exchanger preferably in an amount of 0.05-30wt.% and more preferably 0.10-10wt.% to form an acid gas adsorbent. The ion exchanger made of ion exchange resin into a fibrous form is suitable for this

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purpose due to its easy fabrication. The ion exchanger thus obtained is remarkably improved in selectivity for hydrogen sulfide, independently of carbonic acid gas.

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